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                   IN THE UNITED STATES DISTRICT COURT
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                       FOR THE DISTRICT OF ARIZONA
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        Barry Lee Jones,
                                        4:01-cv-00592-TMB
                    Petitioner,
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 5
        VS.
                                        Tucson, Arizona
                                        November 2, 2017
 6
        Charles L. Ryan, et al.,
 7
                    Respondents.
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        BEFORE THE HONORABLE TIMOTHY M. BURGESS, DISTRICT JUDGE
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                        Transcript of Proceedings
               Evidentiary Hearing - Day 4 (A.M. Session)
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- 1 (On the record at 9:15 a.m.)
- THE COURT: All right. Are we ready to go?
- 3 MS. SMITH: Yes, Your Honor. We're actually going to
- 4 call Dr. McKay first today before we resume with Dr. Hannon.
- 5 We call Dr. Mary Pat McKay.
- 6 THE COURT: Doctor, if you could please come forward
- 7 and stand right over here in the witness box. You might want
- 8 to use the seat closest to me. A lot of people like to use the
- 9 seat farthest from me, but looks can be deceiving.
- 10 THE CLERK: Please raise your right hand.
- 11 MARY PATRICIA McKAY, M.D., WITNESS, SWORN
- 12 DIRECT EXAMINATION
- 13 BY MS. SMITH:
- 14 Q. Could you please state your name for the record.
- 15 A. Mary Pat McKay.
- 16 Q. Thank you. Good morning Dr. McKay. We appreciate you
- 17 coming out to Arizona today.
- Dr. McKay, where are you currently employed?
- 19 A. I am currently the Chief Medical Officer for the National
- 20 Transportation Safety Board.
- 21 Q. Could you tell us a little bit about your educational
- 22 background.
- 23 A. So I did my undergraduate work at Yale, went to medical
- 24 school at the Columbia College of Physicians and Surgeons, and
- 25 did that on a military scholarship. Following that, I spent a

- 1 year as an intern at the Naval Hospital in San Diego. The Navy
- 2 sent me out as a general medical officer for four more years,
- 3 and I served that time in Upstate New York. Then completed my
- 4 residency in emergency medicine at the George Washington
- 5 University, in 1998. Then, in 2002, I think, completed a
- 6 master's of public health.
- 7 Q. Great. Could you just briefly describe to us what
- 8 emergency medicine is.
- 9 A. Emergency medicine is the care of urgent and emergent
- 10 health issues. Really, it means taking care of whoever walks
- into the emergency department wherever you're working.
- 12 Q. Do you have any areas of expertise or specialty within that
- 13 field?
- 14 A. I have no formal expertise. However, I have been doing
- 15 research in injury care and trauma care for the last 20 years.
- 16 Q. Could you just give us a brief overview of your career
- 17 history after your residency.
- 18 A. I have worked in --
- 19 Q. We don't need to know every single hospital you've been in.
- 20 A. Sure. I've worked in almost 20 different hospitals,
- 21 emergency departments. I think, since residency, it's three
- 22 countries and nine states.
- 23 Q. Until you went to the NTSB, what were you doing?
- 24 A. I was a Professor of Emergency Medicine and Public Health
- 25 at the George Washington University in Washington, D.C.

- 1 Q. You also treated patients at the George Washington
- 2 Hospital?
- 3 A. Yes.
- 4 Q. Have you ever treated an injury like the one at issue in
- 5 this case?
- 6 A. I have.
- 7 O. More than one?
- 8 A. Yes.
- 9 Q. Do you have any board certifications?
- 10 A. I am board certified in emergency medicine.
- 11 Q. Are you a member of any associations or professional
- 12 organizations?
- 13 A. Several. I won't give you the entire list. As of last
- 14 week, I was named as a Fellow of the Association for the
- 15 Advancement of Automotive Medicine.
- 16 Q. I think you mentioned that you've done research in the area
- of trauma care and injuries, have you published articles in
- 18 these fields?
- 19 A. Yes.
- 20 Q. Could we just take a quick look at Exhibit 114.
- 21 Could you just identify what we're looking at.
- 22 A. You are looking at my résumé, or my CV.
- 23 Q. That's in evidence. We don't need to go through it page by
- 24 page, I don't think.
- 25 Dr. McKay, have you ever previously consulted as an expert

- 1 in a criminal case?
- 2 A. I have not.
- 3 Q. Have you testified before?
- 4 A. I have.
- 5 Q. In what capacity?
- 6 A. As the treating physician, either for the victim or for the
- 7 defendant.
- 8 Q. So you were essentially a fact witness, but you had an area
- 9 of expertise that you were relying on?
- 10 A. Correct. And in one case they officially made me an expert
- 11 witness, although I was really just there to enter data into
- 12 the -- into evidence.
- 13 Q. Have you ever previously been retained as a defense expert?
- 14 A. I have not.
- 15 Q. Do you recall when you were first contacted by the Federal
- 16 Public Defender's office?
- 17 A. I believe it was sometime in 2008.
- 18 Q. Had you ever worked with the Federal Public Defender's
- 19 office before?
- 20 A. I had not.
- 21 Q. Do you have any other current consulting contracts with
- 22 defense agencies?
- 23 A. I do not.
- Q. What were you asked to do in Mr. Jones' case?
- 25 A. Well, the first question was to understand the description

- of the injuries to the child, and I was told that the timeline
- 2 in the original prosecution was very short. And my initial
- 3 reaction to that was, well, that doesn't happen that way. And
- 4 then I was asked to write a brief to explain why that was.
- 5 Q. Let's take a look at that report. It's Exhibit 113.
- 6 THE COURT: It is admitted?
- 7 MS. SMITH: It is admitted.
- 8 THE COURT: Thank you. Go ahead.
- 9 BY MS. SMITH:
- 10 Q. The first page, I believe, is a declaration that you
- 11 signed?
- 12 A. Yep.
- 13 Q. And if we could look at Page 30. Maybe we need to go back
- 14 one page. Sorry about that.
- This is the report that you authored in October of 2009?
- 16 A. That's correct.
- 17 Q. Did you review some materials related to this case before
- 18 you authored your report?
- 19 A. I did.
- 20 Q. Do you recall some of the materials from the record that
- 21 you reviewed?
- 22 A. So the autopsy and the autopsy photos. Rachel's medical
- 23 records from her primary care source of care, as well as from
- 24 her trip to the emergency department at the end of her life.
- 25 The testimony of the other physicians, Dr. Howard and

- 1 Dr. Seifert; I believe the pretrial testimony, as well as their
- 2 testimony in both trials.
- 3 Q. You also undertook a literature review as part of your
- 4 work?
- 5 A. I did, looking for evidence of exactly how long it takes
- 6 for this injury to cause a problem.
- 7 Q. Could you give us a brief summary of how you did that
- 8 review.
- 9 A. Sure. Looking primarily for pediatric injuries focused on
- 10 those 15 years old and less, and looking in the English
- 11 language literature available in the peer reviewed journals;
- 12 that's global literature but in English. Looking for duodenal
- 13 rupture, duodenal perforation, duodenal laceration, treatment
- 14 and outcomes.
- 15 O. Based upon your review of both the literature and the
- 16 materials in this case, do you have an opinion regarding the
- 17 likely timing of the fatal abdominal injury to Rachel Gray?
- 18 A. I do.
- 19 Q. What's that opinion?
- 20 A. There is not a single reported case in the medical
- 21 literature where the time from the known time of injury to the
- time of death was any less than 48 hours.
- Now, because there may be unreported cases, I am perfectly
- 24 willing to say this did not occur in under 36 hours from the
- 25 time of the injury to the time of death.

- 1 Q. Just to confirm, that opinion is based upon the review of
- 2 the records, the review of the medical literature, and your own
- 3 personal experience as a treating physician?
- 4 A. That's correct.
- 5 Q. Let's talk a little bit more about the specific injury at
- 6 issue in this case.
- 7 Can you describe to us the exact injury that led to
- 8 Rachel's death?
- 9 A. So what she had was a perforation or a laceration of the
- 10 posterior aspect and right lateral aspect of her duodenum in
- 11 the retroperitoneal area. How much of it was really the
- 12 descending portion and how much was the transverse portion is
- 13 sort of right at the corner. And that led to her death by
- 14 eventually causing sepsis.
- 15 Q. Do you know what the cause of the laceration to Rachel's
- 16 duodenum was?
- 17 A. I don't.
- 18 Q. Is it consistent with some sort of blunt force trauma?
- 19 A. It is.
- 20 Q. Do you have any opinion as to whether it was accidental or
- 21 non-accidental?
- 22 A. It can be either. Given the delay in the treatment of this
- 23 child, it suggests that it was non-accidental, but I have no
- 24 way of knowing.
- 25 Q. In your personal experience, you mentioned that you have

- 1 treated some duodenal injuries. Do you have experience with
- 2 some injuries that had causes other than motor vehicle
- 3 accidents?
- 4 A. Sure. I've seen bicycle handles, and really the kid didn't
- 5 actually go over the handles, he just got a handle into his
- 6 gut. I've seen an injury in a slightly older kid, a
- 7 17-year-old, who was wrestling with a friend and got a knee
- 8 into his solar plexus essentially, and caused essentially this
- 9 injury in isolation without a lot of other intra-abdominal
- 10 injuries.
- 11 Q. In that case, how did that patient present to you?
- 12 A. Perfectly healthy, skinny teenager. Had some abdominal
- 13 pain, enough to bring him into the ER. He came into the
- 14 emergency department and we evaluated him and did a CAT scan of
- 15 his abdomen. Nothing in the emergency department is ever as
- 16 fast as it looks on TV. He became frustrated with how long it
- 17 was taking in the emergency department, pulled out his IV and
- 18 left, before we had a chance to really identify exactly what
- 19 was going on in his abdomen.
- 20 Unfortunately, we discovered that this was what was going
- 21 on: that he had air in his retroperitoneum because of a
- 22 rupture -- it's pretty much the only way to get air there --
- 23 without a lot of other injuries.
- 24 And we had to call him back. He came back the next
- 25 afternoon, really quite frustrated. He didn't want to be

- 1 there, and he was even more unhappy when the next thing we did
- 2 was send him to the operating room.
- 3 Q. Is that consistent, that delayed potential diagnosis and
- 4 also delay in severe symptoms consistent with your experience
- 5 in these injuries in other contexts, as well as what you've
- 6 seen in the literature?
- 7 A. It is. Essentially, this is a smoldering process. The
- 8 literature reports cases where the correct diagnosis wasn't
- 9 reached and the surgical repair undertaken for seven days.
- 10 O. You mentioned that this laceration was in the
- 11 retroperitoneal space, can you explain to us what that is?
- 12 A. Sure. The abdomen, in the back half, has some fibrous
- 13 tissue that separates the abdominal contents -- the stomach,
- 14 the liver, the intestines -- from the space behind it, the
- 15 retroperitoneal space, which contains a bunch of muscles, your
- 16 kidneys. And the duodenum is pretty unique, in that it starts
- out inside the abdominal cavity, goes through that fibrous
- 18 tissue, and then comes back into the abdominal cavity.
- 19 Q. In terms of the timing that we are focused on here, what's
- 20 the significance of the fact that the laceration was in the
- 21 portion of the duodenum in the retroperitoneal space?
- 22 A. There's two things. One is that it was in the duodenum.
- 23 It's relatively germ free. It has acid from the stomach, it
- 24 has the secretions from the pancreas, it has bile from the
- 25 gallbladder, but it really doesn't have much in the way of

- 1 germs in it at that stage. So, depending on the size of the
- 2 laceration, how much spillage there actually is, initially the
- 3 effect is of inflammation rather than infection. Infection
- 4 eventually sets in, but it takes time to do so.
- 5 Q. How are these injuries generally caused, in terms of the
- 6 mechanism that actually causes the rupture to the duodenum?
- 7 A. There's really two theories, and no one is really a hundred
- 8 percent sure which is right in an individual case. Because the
- 9 duodenum is a tubular structure, it has muscle activity,
- 10 peristalsis, that moves the food along. It also has food and
- 11 liquid in it, and gas. And so whether this is a blow against
- 12 sort of a balloon and the balloon ruptures in one place, or
- 13 whether this is sort of smushed, if you will, up against the
- 14 vertebral body and torn in that fashion, we don't know.
- 15 Q. Are these injuries generally treatable?
- 16 A. They're very treatable. It's not fun, but they're very
- 17 treatable.
- 18 Q. What happens if injury is not treated?
- 19 A. If it goes untreated, then what happened to Rachel happens,
- 20 which is infection sets in, eventually overwhelming sepsis, and
- 21 finally death as a result of the sepsis.
- 22 Q. Do you have any familiarity with the symptomology that
- 23 would appear over time as that process happens?
- 24 A. Sure. There would be some discomfort initially. How much
- 25 discomfort depends on the person and exactly the extent of the

- 1 injury.
- 2 The next thing, as things smolder, is more pain; but,
- 3 again, how much that is perceived by the person is variable.
- 4 And eventually, with sepsis, you get fever, lethargy, vomiting,
- 5 all of those things.
- 6 Q. Could we take a quick look at the autopsy report, which is
- 7 in evidence as Exhibit 52? And could we take a look at Page 8?
- 8 Could we make larger under your -- great. Thank you.
- 9 So here we have a description of some fluid that was
- 10 present in the peritoneal cavity, is that consistent with the
- 11 process you just described?
- 12 A. Yes. In addition to her injury to the retroperitoneal
- 13 space, there would have been inflammation coming through that
- 14 connective tissue into the abdomen. But she also, by the time
- 15 this process had ended, had an inflammatory process going on in
- 16 the wall of her colon as well. So this is just sort of
- 17 inflammatory exudate, if you will, of the infection that was
- 18 going on.
- 19 Q. Could we take a look at finding number six?
- Is this also consistent with what you just described about
- 21 the inflammation that we see in the retroperitoneal space,
- 22 which also affected some of the surrounding structures?
- 23 A. Sure. And the gas formation may have been gas from the
- 24 duodenum itself, or it may have been from the bacteria that
- 25 were now infecting the area.

- 1 Q. Let's go back to your report.
- 2 In your review of the literature, you might have just
- 3 mentioned this, but did you find cases in which individuals
- 4 suffered duodenal lacerations, like the one Rachel had, they
- 5 didn't receive any treatment for four, even, I think you just
- 6 said, seven days, and they still survived?
- 7 A. That's correct.
- 8 Q. Did you find any instances in which a duodenal laceration
- 9 resulted in death within 48 hours between the time of injury
- 10 and the time of death?
- 11 A. The described cases are children who are identified at 48
- 12 hours and went to the operating room and died thereafter, it's
- 13 not given in any of the reports how long after, and so that's
- 14 where the 48 hours comes from.
- 15 THE COURT: I'm sorry. Can I ask a question?
- 16 THE WITNESS: Yep.
- 17 THE COURT: Because when you testified about this
- 18 earlier, you pointed out that 48-hour figure, but then you
- 19 said, in this case, you thought no sooner than 36 hours. So if
- 20 the reported literature, as I understood it, that you reviewed
- 21 said no sooner than 48 hours, why are you saying in this
- 22 particular case? Because that would make this an outlier,
- 23 wouldn't it?
- 24 THE WITNESS: It would make it an outlier in the
- 25 reported literature, but obviously not every case of this

- 1 injury is in the literature. So really just to say in an
- 2 extreme case where there was a ton of spillage and it went
- 3 fast, perhaps it could go as much as 12 hours sooner. It
- 4 wouldn't go sooner than that.
- 5 BY MS. SMITH:
- 6 Q. Is it fair to say that most of these injuries take at least
- 7 48 hours, but in terms of rendering an opinion about what's
- 8 possible, you wanted to give yourself -- I think in your
- 9 interview you said "a little wiggle room"?
- 10 A. Right, I was trying to be as absolute as possible. There's
- 11 not a reported case sooner than 48 hours. I really was willing
- 12 to say -- pretty absolutely in this case, I was willing to say
- 13 not sooner than 36 hours from the time of injury to death.
- 14 Q. In the literature review, are these injuries often
- 15 accompanied by other injuries that ultimately lead to death?
- 16 A. Yes. Certainly if this happens in a high speed motor
- 17 vehicle accident, there can be brain injuries, chest injuries,
- 18 broken bones, other injuries inside the abdomen causing acute
- 19 hemorrhage; all of those can lead very quickly to death.
- 20 Q. But you did review some cases where death was due solely to
- 21 the duodenal injury?
- 22 A. Yes.
- 23 Q. And in those cases, again, none of those occurred in less
- than 48 hours.
- 25 A. None of those occurred in less than 48 hours, when the time

- 1 is given in the record.
- 2 Q. Could you just explain to us what the reason is for this
- 3 delayed process that it takes between the time of injury and
- 4 the time of death?
- 5 A. Sure. It really is this whole inflammatory cascade has to
- 6 happen. It gets triggered by the injury, cells get attracted
- 7 to the area, white blood cells, for instance. Other
- 8 inflammatory mediators get turned on. There's a whole process
- 9 of turning genes on in these cells that takes time. It's not
- 10 instantaneous.
- 11 Then as the bacteria find the spot, then the infection sets
- in, and then the response to the infection has to occur. And
- 13 physiologically what happens in children is really that they
- 14 compensate for a very long period of time with this
- 15 inflammatory process going on.
- 16 Q. Does that lead to a delayed presentment of symptoms that
- 17 might be recognizable?
- 18 A. Well, it's not just a delay in symptoms. The child
- 19 probably has the symptoms, but, particularly in this age group,
- 20 the ability of the child to explain that this isn't the same as
- 21 the stomach ache she had last week after eating too much
- 22 Halloween candy, that it's different, and that it's worse in
- 23 some way, they just lack the ability to express any of that,
- 24 even if they could understand it.
- 25 Q. Often that leads to a delay in seeking medical care?

- 1 A. It can lead to a delay in seeking medical care. We know
- 2 that kids in this age group are more likely to perforate their
- 3 appendix -- which is another acutely painful abdominal
- 4 problem -- than older children are, in part because the degree
- 5 of severity just is hard to perceive.
- 6 Q. Is there also sometimes a delay in diagnosing these
- 7 injuries once they appear at an emergency room?
- 8 A. There is. And really, among the things that have changed
- 9 in the last twenty-odd years is that the quality of CT scanning
- 10 has improved dramatically, and so our ability to detect that
- 11 there is air or inflammation in this little area of the
- 12 retroperitoneum is much better now than it was before.
- In those countries that are still not routinely using CT
- 14 scans, they're using a serial exam -- meaning the child gets
- 15 examined by a physician over a period of time -- and ultrasound
- 16 to try and diagnose those plane x-rays. All of those things
- 17 really only are going to detect the problem when it becomes
- 18 fairly large.
- 19 Q. And do you know what the process would have been for
- 20 diagnosing back in 1994?
- 21 A. The process for Rachel would have been to get a CAT scan of
- 22 her by the time that she -- depending upon where in the process
- 23 she arrived, how accurate that CAT scan would be at arriving at
- 24 the diagnosis, it's hard to say. It would depend upon the
- 25 quality of the scanner and how far down the pathway she'd gone.

- 1 Q. Is it possible that children might be eating and drinking
- 2 at some period after suffering this type of injury?
- 3 A. My 17-year-old had a big sub for lunch, and that actually
- 4 delayed his operation.
- 5 Q. By, your 17-year-old, you mean the patient you earlier
- 6 described?
- 7 A. The one with the same injury, yes.
- 8 Q. The Judge asked you a few minutes ago about whether, you
- 9 know, there was anything special about this case that was
- 10 causing you to change your opinion, or, you know, modify --
- 11 THE COURT: Excuse me. I think it's deviate from the
- 12 reported cases of not sooner than 48 hours --
- 13 MS. SMITH: That is a much better statement. Thank
- 14 you, Your Honor.
- 15 BY MS. SMITH:
- 16 Q. Did you see anything in Rachel's medical records or in her
- 17 other injuries that she suffered that would make you think that
- 18 this would deviate from the normal case in some way?
- 19 A. Nothing. She was a relatively small kid. She was at the
- 20 25th percentile. But she wasn't -- had no evidence of being
- 21 malnourished, and didn't have any other chronic medical
- 22 conditions that would have potentially changed the course of
- 23 this particular injury.
- 24 Q. So there really is nothing to make you think that this
- 25 would be faster than what you observed in the medical

- 1 literature.
- 2 A. Nothing.
- 3 Q. Could we take a look at Page 33. Again, this is Exhibit
- 4 113, which is your report. Could we highlight the first
- 5 opinion listed there.
- 6 This, again, repeats your conclusion that you stated
- 7 earlier, that you believe that Rachel's injury occurred no
- 8 sooner than 36 hours prior to death, and likely occurred much
- 9 earlier, and there is absolutely zero evidence to suggest it
- 10 could have occurred less than 24 hours.
- 11 Is that still your opinion?
- 12 A. That's still my opinion.
- 13 Q. Again, this is based on the review of the medical
- 14 literature, as well as the records in this case, and your own
- 15 personal experience?
- 16 A. That's correct.
- 17 Q. I am going to shift gears a little bit to some of Rachel's
- 18 other injuries.
- 19 Are you aware that Rachel also suffered a scalp laceration?
- 20 A. I am.
- 21 Q. Do you have any opinions about what might have caused that
- 22 injury?
- 23 A. I don't.
- Q. We also discussed some bleeding in Rachel's ears that was
- 25 present. You're going to have to remind me again how to

- 1 pronounce that term.
- 2 A. Hemotympanum.
- 3 Q. Thank you.
- What are the potential causes of this hemotympanum?
- 5 A. There's really only three things that cause it. It's
- 6 bleeding into the eardrum or behind the eardrum. And you can
- 7 have that if you have a fracture of the bone behind the
- 8 eardrum. You can have that from barotrauma, which is typically
- 9 going up to altitude or down into the ocean and not being able
- 10 to manage the pressure in that part of your year, the back part
- of your ear. So we'll see it occasionally in scuba drivers.
- 12 And then being -- the old-fashioned term would be "slapped
- 13 upside the head." Sort of a cupped hand or a slap across the
- 14 ear makes a concussive force that can cause this injury.
- 15 Q. Can you say anything about the potential timing of that
- 16 injury?
- 17 A. I cannot.
- 18 Q. Is it possible that the blood could have been present for
- 19 seven or more days?
- 20 A. Yes.
- 21 Q. I want to take a look at Exhibit 65B. Again, this is a
- 22 sealed exhibit.
- THE COURT: Before you go on, a related question to
- 24 the blood in the ear. We heard some other testimony that there
- 25 is a phenomena that occurs at death, which is -- I think the

- 1 term that was used was "purging." So that blood can emanate
- 2 from the mouth and the nose and on occasion from the ears, too,
- 3 as I understood the testimony. Can you give any insight into
- 4 that?
- 5 THE WITNESS: The fact that this was a bilateral
- 6 finding, it was described similarly in both ears, and that
- 7 there wasn't any underlying injury that would have been known
- 8 about to have caused bleeding at the very time of death makes
- 9 me believe that it happened before death, that it was not
- 10 associated with the dying process, per se. There was some
- 11 injury there.
- 12 THE COURT: But I guess my question is -- okay. So I
- 13 understand what you're saying, you think it was probably there
- 14 before. But did I understand the prior testimony about this
- 15 phenomena of purging to be correct or incorrect?
- 16 THE WITNESS: So purging is typically liquids coming
- 17 out of the body as all of the body orifices relax, everything
- 18 relaxes. There is not any fluid or blood in and around the ear
- 19 that would cause it to flow into that place at the time of
- 20 death. Now, that said, because Rachel died of sepsis, one of
- 21 the things that can happen in sepsis is something called
- 22 disseminated intravascular coagulopathy, which means that you
- 23 start to bleed from places that weren't bleeding before, and
- you can even can be breaking down clots that have been there
- 25 for a while. So if she'd had a little injury, it's possible

- 1 that around the time of death the bleeding increased, but there
- 2 had to have been some injury there to begin with.
- 3 THE COURT: Just wouldn't happen spontaneously.
- 4 THE WITNESS: It wouldn't have happened spontaneously.
- 5 THE COURT: Got it. Thank you. I'm sorry. Go ahead.
- 6 You were pulling up an autopsy photo.
- 7 MS. SMITH: No problem. Thank you, Your Honor.
- 8 BY MS. SMITH:
- 9 Q. If we could enlarge the top photo on this page.
- 10 We can talk while we're pulling up the photo.
- 11 This top photo that we're looking at here, Autopsy Photo
- 12 849, have you seen this photo before?
- 13 A. I have.
- 14 Q. Have you observed that there is a circular mark on Rachel's
- 15 chest?
- 16 A. Yes, I have.
- 17 Q. Do you have any opinion about whether this particular mark
- 18 could have been caused by any attempted medical care that
- 19 Rachel might have received on the morning of her death?
- 20 A. So this is remarkably circular compared to some of the
- 21 other bruises on her body. The phenomenon that we see when we
- 22 apply sticky medical equipment, in this case EKG electrodes, to
- 23 a deceased person, and then pull them off, is something called
- 24 "skin slippage." And my suspicion in this case, we know when
- 25 Rachel arrived at the emergency department they did apply a

- 1 monitor to her, and then at some point before this photograph,
- 2 those were obviously removed, so my suspicion is that this is a
- 3 manifestation of that event.
- 4 Q. Have you seen similar marks before in other cases?
- 5 A. I have.
- 6 Q. The Judge was just asking you about the bleeding in the
- 7 ears. You mentioned that DIC is a possibility that was
- 8 happening when Rachel was going through the septic process. Is
- 9 it possible that Rachel would continue to bleed after death or
- 10 that wounds that might have previously closed over could open
- 11 and ooze some blood?
- 12 A. So really while she was still alive and had a pulse, the
- 13 DIC can cause previously closed wounds even a few days old to
- 14 begin to bleed again. It can be very disturbing to people
- 15 obviously.
- 16 Q. I guess I asked you two questions. I apologize.
- 17 The second question is really is it possible for blood to
- 18 continue to seep out of wounds after someone has died.
- 19 A. For a brief period of time, gravity happens. Okay. So
- 20 depending upon the size of the wound and the amount of blood in
- 21 the blood vessels in the neighborhood, yes. In this case we're
- 22 talking about a scalp wound. It was wet at the time, it would
- 23 have been wet, it could have kept being wet for some period of
- 24 time afterwards.
- 25 Q. Could I just quickly show you Exhibit 49, which is another

- 1 sealed exhibit?
- 2 This is a photo of Rachel taken at autopsy with what
- 3 appears to be some fresh blood. Is that consistent with what
- 4 you just described?
- 5 A. Well, I agree it's blood. I can't tell if it's fresh or
- 6 not. And it's in the area where her head would have been in
- 7 the bag, so that's consistent with rubbing up against the
- 8 laceration on her head.
- 9 Q. Is it possible that when Rachel was transported to the
- 10 hospital that morning that some blood from that wound might
- 11 have gotten into Mr. Jones' van?
- 12 A. It appears it could have been still wet at the time, it was
- 13 wet enough to mark the bag.
- 14 MS. SMITH: I don't have any other questions.
- 15 THE COURT: Thank you.
- 16 Cross-examination.
- 17 CROSS-EXAMINATION
- 18 BY MS. GARD:
- 19 Q. I just have some very, very brief questions for you today.
- Now, you, as an emergency room doctor, your job when
- 21 someone comes into the hospital with peritonitis, would be to
- 22 stabilize them and provide initial treatment, right?
- 23 A. And make the diagnosis of where the problem is.
- 24 Q. And make the diagnosis. But you wouldn't normally -- if
- 25 someone were to die, it would be up to a pathologist in most

- 1 cases to determine exactly why that person died, right?
- 2 A. Correct, we would just do an external exam.
- 3 Q. Right. That's not part of your normal practice, to figure
- 4 out why a patient may not have survived.
- 5 A. Right.
- 6 Q. Also, often when someone comes into the hospital with an
- 7 injury like this, after you provide the initial treatment, you
- 8 triage the care over to a surgeon, right, who repairs the
- 9 problem, correct?
- 10 A. Yes. Well, or to another hospital where, in this case,
- 11 there's a pediatric surgeon.
- 12 Q. A pediatric surgeon. On direct, you talked about your
- 13 literature review in this case. I believe you told us before
- 14 that you reviewed a number of articles, right? But I think
- 15 when we talked to you before, you didn't have a complete list
- 16 of everything you had looked at because I think you had changed
- 17 employment and some of your lists had been lost?
- 18 A. Right, I had changed jobs, and so my electronic data
- 19 doesn't necessarily convey with, unfortunately.
- 20 Q. So we still don't have a complete list of every article
- 21 that you read to form your opinions in this case.
- 22 A. That's correct.
- 23 Q. And you agreed on direct that not every case of peritonitis
- 24 or duodenal injuries make it into the medical literature,
- 25 right?

- 1 A. Of course not.
- 2 Q. There are probably many, many, many more cases out there
- 3 where this had happened.
- 4 A. Yes.
- 5 Q. Right. Even with the literature you reviewed, there is a
- 6 very wide range of time during which -- let me rephrase the
- 7 question.
- 8 The case studies that you looked at, the time between the
- 9 injury and the symptoms appearing, it varies between people,
- 10 right?
- 11 A. I wasn't looking at when the symptoms began.
- 12 O. Or when death occurs.
- 13 A. Yes.
- 14 Q. Yes. Because I believe you cited cases 48 hours, and then
- on the other end I think you cited seven days?
- 16 A. Right, and those children had the -- went to surgery at
- 17 seven days and survived.
- 18 Q. Okay. But what I am trying to get at, and I think you
- 19 acknowledged this when we interviewed you, is that there are
- 20 some individual variations between people and how their bodies
- 21 react to injuries, right?
- 22 A. And there are differences in the degree and location of the
- 23 injury as well.
- 24 Q. Correct. Correct. But each person's body -- if you and I
- 25 sustain the same injury, you couldn't predict that we would die

- 1 at the exact same moment, right?
- 2 A. That's correct.
- 3 Q. And many of the articles that you looked at -- in fact, I
- 4 think all of the articles that you looked at -- focused on
- 5 treatment of these types of injuries, right?
- 6 A. Some of them focus on diagnosis.
- 7 Q. And diagnosis. But there weren't any, you know, articles
- 8 written by specialists in pathology, for example, analyzing
- 9 specifically the time it takes for someone to die from
- 10 peritonitis associated with this injury.
- 11 A. So I looked for information in the pathology literature and
- 12 found nothing.
- 13 Q. Found nothing. So you found no published research into
- 14 that area.
- 15 A. No. Unfortunately, oftentimes the pathologist doesn't
- 16 necessarily know when the injury occurred.
- 17 Q. And that's true often in child abuse cases, right?
- 18 A. That's particularly true in child abuse cases.
- 19 Q. I think some of the literature that you looked at that
- 20 discussed non-accidental trauma did acknowledge that the time
- 21 of injury was uncertain, right?
- 22 A. That's correct. It may be uncertain.
- 23 Q. Because oftentimes people have a motive to conceal
- 24 information with child abuse, right?
- 25 A. Well, and the child may be too young to be able to tell

- 1 when something occurred.
- 2 Q. Right. So it's not always reliable when it's a
- 3 non-accidental injury, the timing is not always reliable,
- 4 right?
- 5 A. Correct.
- 6 Q. Okay. This is not an injury that you see frequently,
- 7 right?
- 8 A. It's a rare injury to begin with.
- 9 Q. Last question. You were questioned about the circular mark
- 10 on Rachel's chest, acknowledging your opinion that it's from
- 11 some sort of medical device being applied. I think you told us
- 12 before that an actual bruise cannot be inflicted after death,
- 13 is that right?
- 14 A. To form a bruise?
- 15 Q. Correct.
- 16 A. Requires bleeding.
- 17 Q. Requires -- and you have to be alive to be able to bleed?
- 18 A. Essentially you have to be alive to be able to bleed. Now,
- 19 can you have an injury at the time of death and some oozing
- 20 into that area as your heart is stopping or just after it
- 21 stopped? Sure. But it's not going to be -- you're not going
- 22 to suddenly form some new giant bruise after death.
- MS. GARD: No further questions.
- 24 THE COURT: Redirect?
- 25 REDIRECT EXAMINATION

- 1 BY MS. SMITH:
- 2 Q. Just very briefly, Dr. McKay.
- 3 In terms of your medical review in the literature, even in
- 4 those cases where the injury's presented quickly, you still did
- 5 not find any cases where there were less than 48 hours between
- 6 injury and death, is that correct?
- 7 A. That's correct.
- 8 Q. And in the instances of child abuse, was there often an
- 9 even longer delay between presentment and/or diagnosis?
- 10 A. The delay -- there was a delay in diagnosis. There may
- 11 also have been a delay -- a delay in presenting to care, but
- 12 there may also have been a delay in diagnosis. If you don't
- 13 get the right story, you don't necessarily look for the right
- 14 injury.
- 15 O. So even in the child abuse cases that you reviewed, there
- 16 was no evidence that these injuries occurred within 48 hours of
- 17 death.
- 18 A. That's correct.
- MS. SMITH: I don't have anything else.
- 20 THE COURT: I've got a couple quick follow-up
- 21 questions.
- 22 THE WITNESS: Yes, sir.
- 23 EXAMINATION BY THE COURT
- 24 Q. You were asked on cross-examination about bruising and
- 25 whether or not bruising could occur after death. We heard some

- 1 testimony earlier in this case that sometimes marks can appear
- 2 on the skin that are not actually bruising but I think it was
- 3 described as sort of pooling after death. Is that your,
- 4 understanding?
- 5 A. So you can have lividity, which is sort of a redness that
- 6 typically happens in the dependent portions of the body after
- 7 death. That's really just gravity happening on the liquid in
- 8 the body.
- 9 Q. I don't know if you reviewed this in your review of the
- 10 file, but in some of -- just to continue on that same line,
- 11 some of the autopsy pictures evaluated the tissue underneath
- 12 the skin, and it was explained that while you might have red
- 13 marks on the skin, a bruising would go down below the skin,
- 14 especially in the chest area, for instance, if somebody had
- 15 been struck.
- 16 A. So my understanding is the depth of the bruise really
- 17 matters the amount of force that's applied and what kind of
- 18 tissue is underneath it. So if you have a lot of -- if you
- 19 have a lot of fat, you may just see something in the skin and
- 20 nothing in the fat. If you press hard enough and there's
- 21 muscle underneath, you should see bleeding into the muscle
- 22 underneath.
- 23 Q. I think you were asked a couple questions both on direct
- 24 and on cross having to do with the manifestation of symptoms
- 25 from this type of an injury, the fatal injury to the small

- 1 intestine. Is it common or uncommon, based on your experience
- 2 or your review of the literature, for patients who actually
- 3 have this injury to be sort of asymptomatic from the standpoint
- 4 of others seeing, or seeing indications that they're actually
- 5 ill? Does that make sense?
- 6 A. Yes. I think what you're saying is the kid may say "my
- 7 stomach hurts," but otherwise act, eat, and look normal. And,
- 8 yes, I would agree that happens.
- 9 Q. And I think you described the 17-year-old patient you had
- 10 of having a Subway sandwich right before surgery?
- 11 A. Yeah, well, I can't say it was the chain, but it was a sub.
- 12 Q. Okay.
- 13 A. He's like, "I just ate, what do you mean I need an
- 14 operation?"
- 15 THE COURT: Thank you, very much.
- 16 I don't know if my questions raised anything either
- 17 respondents or petitioners would like to follow up on, but
- 18 while the doctor is still here, I want to give you that
- 19 opportunity. So I'll start with respondents.
- MS. GARD: May I just have a moment?
- 21 THE COURT: Absolutely.
- 22 MS. SMITH: I don't have anything else, Your Honor.
- THE COURT: Well, you don't know yet because they
- 24 might ask a question.
- 25 MS. SMITH: You're right. I apologize.

- 1 MS. GARD: We have nothing, Judge. Thank you.
- 2 MS. SMITH: I still have nothing.
- 3 THE COURT: Good answer.
- 4 Thank you, very much. We appreciate your testimony.
- 5 DR. McKAY: Thank you, sir.
- 6 THE COURT: Safe travels.
- 7 MS. SMITH: Your Honor, could we take a brief recess
- 8 before our next witness?
- 9 THE COURT: Yes. Are we continuing with the gentleman
- 10 from yesterday?
- 11 MS. SMITH: Yes.
- 12 THE COURT: Great. Yes. How long do you need?
- MS. SMITH: We just need to confirm that he's actually
- 14 here. We went a little faster than we thought we would. He is
- in Tucson, we just need to make sure he is in the building.
- 16 THE COURT: Okay. Well, Tucson's a pretty big place.
- 17 We'll take a 10-minute recess, but I am going to sit here while
- 18 you tell me if we're going to be needing longer than 10
- 19 minutes.
- 20 (A recess was taken from 9:55 a.m. to 10:07 a.m.)
- 21 PATRICK R. HANNON, WITNESS, PREVIOUSLY SWORN
- THE COURT: You're still under oath.
- DIRECT EXAMINATION (RESUMED)
- 24 BY MS. SMITH:
- 25 Q. Thank you for coming back, Dr. Hannon.

- 1 A. You're very welcome.
- 2 Q. So we left off yesterday taking a look at some of the
- 3 photographs that you had taken of the van in the impound lot.
- 4 Today we did bring the original image files so we can see the
- 5 real photos as opposed to the bad PDFs that I had yesterday.
- 6 A. Okay.
- 7 MS. SMITH: Just for the record, Your Honor, these
- 8 pictures correspond directly to the ones that are in the PDF.
- 9 I don't know if you want us to submit a new exhibit or if
- 10 that's sufficient.
- 11 THE COURT: Well, you know, here's the thing. If you
- 12 can submit them in this format, I think it would be valuable,
- 13 because, you know, I'd like the record to be complete, and if I
- 14 am viewing something that's different than what's in the
- 15 record, that would be a problem. So, yes, I'd like you to --
- 16 yes, that's fine.
- 17 MS. SMITH: I've handed the clerk both a hard copy and
- 18 CD copies of the original images, which we have now marked as
- 19 119B. I am going to refer to the page numbers that were in the
- 20 original exhibit, 119.
- 21 THE COURT: That's fine. Thank you.
- MS. SMITH: Sure. Thank you.
- 23 THE COURT: These are copies for me or are these --
- MS. SMITH: Those are for you.
- 25 THE COURT: Okay. So you're going to be filing them

- 1 at some point, right?
- 2 MS. SMITH: I guess I would move to admit them right
- 3 now, if that's okay.
- 4 THE COURT: You could admit them, but -- I don't know
- 5 what the practice is here, but, you know, generally the Court
- 6 doesn't maintain copies of the exhibits. I just want to make
- 7 sure that, for the record, we've got what you've already filed,
- 8 plus we've got now the same photos in a different format. What
- 9 are they, JPEG?
- 10 MS. SMITH: Yes.
- 11 THE COURT: You've got them in JPEG, so you haven't
- 12 lost the quality that you have from them being converted to a
- 13 PDF. So as long as they are now part of the record and we have
- 14 them somewhere in the record. Again, I am not sure what the
- 15 practice here is.
- MS. SMITH: I think this is actually our official
- 17 record copy right here. (Indicating)
- 18 THE COURT: That's fine. I think we're good.
- MS. SMITH: We can add them to that. Okay. Thank
- 20 you, Your Honor.
- 21 THE COURT: Thank you.
- 22 BY MS. SMITH:
- 23 Q. Let's take a look at 119 51B, which, again, corresponds to
- 24 the image that's on the bottom of Page 51 of Exhibit 119. We
- looked at these yesterday, but I think we can see them more

- 1 clearly with what we're looking at today.
- 2 A. Yes, ma'am.
- 3 Q. Can you describe what we're looking at here?
- 4 A. This indicates a 60-foot displacement from the van, and
- 5 likewise the camera is set at 46 inches from the ground.
- 6 Q. Let's look at the next photograph, which is 119 52A.
- 7 This is the photograph corresponding to the description
- 8 that we just looked at?
- 9 A. Yes, it is. So that would be a 60-foot distance or
- 10 displacement.
- 11 Q. Can you describe what you can see in the van from this
- 12 distance?
- 13 A. Yes. I can see both windows. I can see through the
- 14 windshield. I can see the passenger side seat. I can see part
- 15 of the driver's side seat. At that point the A pillar, which
- 16 connects the windshield not driver's side window, the A pillar
- 17 is obscuring some of the seat back of the driver's side seat.
- 18 I can see where the dash comes up higher than the windshield at
- 19 this point.
- 20 Q. Would you describe the inside of the van as dark?
- 21 A. I would describe it as dark. And, again, due to the amount
- 22 of light that's coming into the interior, even though there are
- 23 clearly windows all the way around. I would describe it as
- 24 dark.
- 25 Q. All right. Let's take a look at the next photo, which is

- 1 119 52B. Can you again read for us what's on the notepad.
- 2 A. Yes. Again, a 60-foot distance displacement. Camera
- 3 height at 46 inches. Then a note to myself: Pat in a seat in
- 4 lateral flexion. So I'm in the seat and I'm laterally flexing.
- 5 I'm bending to, actually, my right, towards the passenger side
- 6 seat.
- 7 Q. Let's take a look at the photograph corresponding to that,
- 8 which is 119 53A.
- 9 All right. What do you see here?
- 10 A. If I look closely, I can see that the passenger side seat
- 11 looks different, I see my outline of my head. I do see that my
- 12 face is turned; it's dark, but I can see the left side of my
- 13 face as I have turned.
- 14 Q. And it looks like you are leaning quite a distance to the
- 15 right, is that accurate?
- 16 A. I am. And I know my intent was to have my elbow up. I'm
- 17 not sure that I see a clear view of my elbow in this
- 18 photograph, but I know that I did have my right elbow taken out
- 19 to the side of my body.
- 20 Q. And I think you took some subsequent photos from different
- 21 distances from the van, is that correct?
- 22 A. Yes, ma'am.
- 23 Q. Let's just take a quick look at those. If we could go to
- 24 119 54A. Again, this is Exhibit 119, at Page 54, at the top of
- 25 the page.

- 1 A. And that's 50 feet, so we're a little closer. Again,
- 2 camera at the same height.
- 3 Q. If we could take a look at the next picture.
- 4 So in terms of perspective error and acuity, how does this
- 5 compare to what we previously saw?
- 6 A. Well, we've moved 10 feet closer. The perspective error is
- 7 not significantly affected by moving 10 feet closer. Obviously
- 8 I can see more in terms of acuity from this distance, from 50
- 9 feet. But, again, I see the outline of the seat, the passenger
- 10 side seat. Again, from this particular angle, I see that the A
- 11 pillar of the van is about right in the middle of the driver's
- 12 side seat. So I see about the same thing.
- 13 Q. We're just going to look at one more photo which I think is
- 14 a little bit more closer. Now we're at 40 feet.
- 15 A. All right.
- 16 Q. Can we take a look at the next picture. This is 119 56A,
- 17 which is Exhibit 119 on Page 56.
- 18 A. Yes. And I think, you know, at this point one thing that
- 19 is a little different is that I have a better view of the seat
- 20 belts on the passenger side. I also have a better view of the
- 21 steering wheel on the driver's side. But, again, because we're
- 22 simply keeping the angle proximate with the same and simply
- 23 moving closer to the van, I still have the problem with the A
- 24 pillar in this particular photograph, but I can see a little
- 25 more detail.

- 1 But clearly at 60, 50 and 40 feet, it's dark inside. Due
- 2 to the amount of illumination that's coming into the van.
- 3 Q. Do you understand from reviewing the Lopez children's
- 4 testimony that while they may have initially been looking
- 5 through the windshield, they also testified that they observed
- 6 things through the driver's side window?
- 7 A. Yes. And I believe that there was a little difference
- 8 between Ray and his sister, Laura. Laura indicated that at one
- 9 point that she could see through the windshield, and apparently
- 10 she was -- she focused first, so to speak. Whereas Ray -- oh,
- 11 pardon me.
- 12 I think there was some discrepancy there in terms of court
- 13 versus interview, and so on. But at least one of the children
- 14 indicated that they could see through the windshield and also
- 15 through the side window, and then one of the children indicated
- 16 it was primarily through the side window.
- 17 O. And did you take some measurements and do you have an
- 18 opinion about the children's ability to see through the
- 19 driver's side window?
- 20 A. Yes. And, of course, depending upon perspective error, but
- 21 even at 50 feet, you can see that there is some perspective
- 22 error there. And certainly when the van moves closer in
- 23 between the Lopez children and likewise Choice Market, at that
- 24 point, because of their eye height, at approximately 46 inches,
- and likewise the windowsill being up around 56 inches, they're

- 1 in a position where they're looking up, much of their view
- 2 would be blocked by the windowsill.
- Now, at that point they still would be able to observe the
- 4 individual's upper torso, head and neck. And we're talking
- 5 about Barry Jones. So they would be able to observe that
- 6 through the driver's side window.
- 7 And likewise, depending upon where the van is, they would
- 8 be able to see Rachel Gray, at least her head, if it's not
- 9 blocked by the head and body of Barry Jones.
- 10 O. Okay. Did you form an opinion about whether Rachel would
- 11 be blocked by Barry if looking through the driver's side
- 12 window?
- 13 A. It depends on the time point, Ms. Smith. So, in other
- 14 words, when the head and shoulders and upper torso of Barry
- 15 Jones precisely aligns, or aligns, with the head of Rachel
- 16 Gray, then it would be entirely blocked. And before that time
- 17 period there would be some observation, they would be able to
- 18 see part of Rachel's head. And, again, sitting in the seat,
- 19 you know, she is only up about 21 inches, so about six inches
- 20 above the windowsill is all that they would be able to see.
- Now, after the van passes by, it's those seat backs, those
- 22 high seat backs, that really would block both individuals.
- 23 Q. And when you are telling us about Rachel's seated height,
- 24 how did you determine that?
- 25 A. I determined that, first of all, from autopsy. So at the

- 1 autopsy she was approximately, I believe, 110 centimeters,
- 2 approximately 40 inches in stature.
- 3 So I looked up some tables. There are differences as we
- 4 age, and for a child three to four years old, 40 inches in
- 5 stature, seated height would be approximately 21 inches. And
- 6 that's approximate. I didn't have a scale at autopsy that gave
- 7 me that figure, but that's pretty darn close.
- 8 Q. And based upon all of your observations and measurements,
- 9 do you have an ultimate opinion about the children's ability to
- 10 see into the van?
- 11 A. Well, the ultimate opinion is it's very questionable. And
- 12 I know in my interview I clarified that due to all of the
- 13 number of factors that come into play, in terms of acuity at
- 14 70, 80 feet, perspective error, glare, lack of illumination
- inside the van. Likewise, A pillar, Barry's body, and so on.
- So, when you take all of that in combination, I think being
- 17 able to see with any kind of a surety or conviction is
- 18 improbable.
- 19 Q. You also undertook an analysis of the plausibility of some
- 20 of the actions that the Lopez children described, is that
- 21 correct?
- 22 A. Yes, ma'am.
- 23 Q. How did you conduct this analysis?
- 24 A. Well, I conducted that analysis. Again, I had some
- 25 pictures taken. Mr. Sowards took some of the pictures. I used

- 1 myself as an exemplar. It turns out that -- well, we know now
- 2 Barry and I are almost identical in height, at five foot four
- 3 and a half. I've lost some height over the last 10 years.
- 4 Q. You're referring now to the fact that you recently took
- 5 some measurements of Mr. Jones?
- 6 A. Yes, I did, in early October.
- 7 Q. Could we pull up 119A, which is in evidence.
- 8 MS. SMITH: I apologize, Your Honor, with using the
- 9 original images. We just have to go back and forth a little
- 10 bit.
- 11 THE COURT: That's fine.
- 12 BY MS. SMITH:
- 13 Q. Dr. Hannon, does this reflect the measurements that you
- 14 took of Mr. Jones and then compared to yourself earlier in
- 15 October?
- 16 A. Yes, ma'am. And you see Barry Jones' measurements down at
- 17 the bottom, my measurements continue on the next page. But you
- 18 can see, in terms of height, we're almost identical, in terms
- 19 of stature. There were some differences in terms of upper arm,
- 20 forearm, and hand between Barry Jones and myself --
- 21 Q. Could we take a look at the next page?
- 22 A. Sure.
- 23 Q. Could you briefly just tell us, in terms of the arm length,
- 24 how you and Mr. Jones compared?
- 25 A. Yes. Barry Jones' arm length, and measuring from the

- 1 glenohumeral joint down to the number three Ray, or MCP joint,
- 2 metacarpophalangeal joint, was approximately, I believe, 23.5
- 3 inches. That's on the previous page.
- 4 MS. SMITH: Jennifer, would it be possible to show
- 5 both pages at once? Could you show both pages at once?
- 6 THE WITNESS: Sure. And so what we see is, in terms
- 7 of total UE. That's good right there. Pardon me.
- 8 MS. SMITH: Could you scroll so we can see both Barry
- 9 Jones and -- perfect. Right there.
- 10 THE WITNESS: In terms of total UE, that's upper
- 11 extremity, Barry Jones, his arm length, which included the hand
- 12 to the number three MCP, is 23.5 inches. Likewise, that same
- 13 measurement in me is 25.25. So we're looking at almost a
- 14 two-inch difference there between the two, in terms of arm
- 15 length.
- 16 So Barry Jones actually has a shorter upper extremity
- 17 than mine. And this is all within biological individuality.
- 18 BY MS. SMITH:
- 19 Q. Is arm length something that changes over time?
- 20 A. No, it doesn't. So stature can, primarily to the spine,
- 21 briefly, the spine can shrink due to factors which I won't go
- 22 into, but arm length stays the same.
- 23 Q. I believe both you and Mr. Jones might have been five-six
- 24 at various other times in this case when your measurements were
- 25 taken, is that consistent with your testimony?

- 1 A. Yes. In terms I think probably I'd have to go back
- 2 probably 15 years to have a five-foot-six-inch stature, in all
- 3 honesty.
- 4 Q. I believe we might see a picture where you are a little bit
- 5 taller than what's listed here, from when you took your photos
- 6 earlier.
- 7 A. Oh, I had shoes on though.
- 8 Q. Okay. Fair enough.
- 9 Was there a difference between your torso length and
- 10 Mr. Jones' torso length?
- 11 A. Yes, there was. And Barry Jones' torso was a little bit
- 12 longer than mine. Taller, let's see, in terms of torso.
- 13 Q. Seated height?
- 14 A. His seated height was 35.5 inches and my seated height is
- 32.25, so there's a little over a two-inch difference in terms
- 16 of sitting height. Barry Jones is about a little over two
- 17 inches taller in terms of sitting height, even though our
- 18 standing stature barefooted is the same.
- 19 Q. And in terms of your analysis, does that difference in
- 20 torso length make any difference?
- 21 A. No. No, it does not. Actually, arm length would be a more
- 22 important variable. And the reason being is, is that even
- 23 though, sitting height, I may be a little bit shorter and Barry
- Jones is a little bit taller, that only really comes into play
- 25 if the lean is extreme. So through a part of the arc, in terms

- of bending over looking at the radius from my buttocks to the
- 2 top of my head, that's when, you know, at this angle it's a
- 3 minimal difference, it might be as much as one-inch difference.
- What's more important would be the arm length. When I say
- 5 "arm," I'm referring to the entire upper extremity.
- 6 Q. Based upon your recent measurement of Mr. Jones, what's
- 7 your opinion about whether you served as a good exemplar for
- 8 him in the photographs we're about to look at?
- 9 A. I think, in retrospect, I served as an excellent example in
- 10 terms of anthropomorphic measurements.
- 11 Q. Let's take a look at some of the photographs of your
- 12 analysis of the described actions by the Lopez children. If we
- 13 could take -- I'm sorry.
- 14 Let's go back to your report, quickly.
- This is Exhibit 119, at Page 28. Could we enlarge the
- 16 bottom several lines there.
- 17 All right. So we're going to look at this photo in a
- 18 minute, but this is your description of what you were
- 19 executing. Can you kind of describe for us what you did here
- 20 in your conclusion.
- 21 A. Yes. Initially I was leaning over to my right in order to
- 22 execute a backhand fist or even further for a backhand elbow to
- 23 the head and torso of Rachel Gray.
- Q. Again, that's based upon the testimony you reviewed of the
- 25 Lopez children of what they observed?

- 1 A. Yes. That there could have been a strike by the fist to
- 2 the face, the head. The face was mentioned a couple of times.
- 3 And then likewise I believe certainly Laura Lopez mentioned a
- 4 strike by the elbow. And I believe Reynaldo did, too, at one
- 5 point.
- 6 So an elbow strike in these photos was demonstrated with my
- 7 right arm up to the side, and then I am leaning over, I'm
- 8 bending to the left, lateral flexion, and likewise I am resting
- 9 on my right buttock. I've leaned over that far on the wing of
- 10 the seat pan. And I'm attempting to go ahead and get my elbow
- 11 up to that point where some patches had been removed from the
- 12 passenger seat.
- 13 Q. In your report here you said that driving the van while in
- 14 this position would have required exceptional skill, it would
- 15 have been extremely awkward, and that the hypothesized actions
- 16 by Barry Jones while driving the Ford van are extremely
- 17 improbable. Is that correct?
- 18 A. That is correct, and that's probably best illustrated by
- 19 some of the photos. And I can elaborate if you want me to.
- 20 Q. Sure. Let's take a look at some of those photos.
- 21 This is going to be 119 74B, which again is the image on
- 22 Exhibit 119, on Page 74, on the bottom.
- Okay. Can you describe what we're looking at here,
- 24 Dr. Hannon?
- 25 A. What I've done is I've leaned over the wing of the driver's

- 1 side seat pan. You can see that my left hip is actually off
- 2 the seat pan. I'm sorry. My right hip is off the seat pan, my
- 3 left hip is still on the wing. And I'm laterally flexing, I'm
- 4 bending over. I'm bringing up that arm to my side. We call
- 5 that "abduction." I've formed a bent elbow, and I'm coming
- 6 back with that elbow at approximately -- I believe that that
- 7 top mark was up around 20 inches, 21 inches.
- 8 Q. And you're trying to approximate here an elbow strike to
- 9 the head of Rachel Gray?
- 10 A. Yes, I am. Yes. And what's evident in this photograph is
- 11 the amount of lean that I have, the movement of my hips over to
- 12 the seat to the right. But also you note that my left hand is
- 13 grabbing the steering wheel. And although I have some control,
- 14 the control is very minimal in terms of steering.
- 15 Q. Are you actually using the steering wheel to brace
- 16 yourself?
- 17 A. I am using the steering wheel to brace myself. If I were
- 18 to go ahead in this particular position and not brace myself
- 19 with my right arm, and let go with my left hand, I would topple
- 20 over. My center of gravity would bring me over into the seat.
- 21 Q. Let's take a look at Picture 119 72B.
- Is this kind of another angle of what we were just looking
- 23 at?
- 24 A. Yes. I think it's a little more of a close-up. You see
- 25 it's about the same photograph. You probably have a better

- 1 view of my left forearm holding onto the steering wheel, and
- 2 that's to support myself.
- O. Let's take a look at 119 63A.
- 4 Okay. Can you describe what we're looking at here?
- 5 A. Yes, in this instance I tried -- it's not the same
- 6 photograph, a different photograph was taken, but I tried to
- 7 approximate the same position. So what you see again is you
- 8 see that lean, you can see that I am looking towards that
- 9 passenger side seat, elbow is up.
- One thing you notice is that my left foot is off to the
- 11 side, it's counter balancing, but you don't have a good view of
- 12 my right foot. But the problem is now that right foot needs to
- 13 operate both the accelerator and operate the brake, if you
- 14 will. And that's difficult in this position because, in a
- 15 sense, I am bracing with that right foot, left foot out to the
- 16 side. I could probably reach the brake and the accelerator,
- 17 but from this particular position control would be extremely
- 18 difficult.
- 19 Q. I think you already mentioned that to get into this
- 20 position your buttocks were actually coming off of the driver's
- 21 seat, is that correct?
- 22 A. Yes. And you can see it here, that certainly that left
- 23 buttock is off the seat. I am resting on the wing on my right
- 24 side buttock.
- 25 O. Could we take a look at Picture 64A.

- 1 This again is showing that you're actually coming out of
- 2 the seat in order to reach over to the passenger seat?
- 3 A. Yes. And keep in mind, as per your investigator, that
- 4 these seats are actually about 27 inches apart. You know, it's
- 5 not a standard configuration. Okay. So you've got about a
- 6 27-inch distance between the seats.
- 7 Q. Do you have any recollection that the passenger seat might
- 8 not have been actually parallel to the driver seat in the van?
- 9 Do you recall that?
- 10 A. I don't recall that.
- 11 Q. Could we go back to the previous photograph we were looking
- 12 at, which was 63A?
- 13 Again, in this photograph you are bracing yourself with
- 14 both your feet and your left forearm in order to avoid falling
- 15 over?
- 16 A. Yes. And, of course, when I am leaning in that
- 17 particular -- that particular amount lean, or laterally flexing
- 18 to the right, I might have some control in terms of moving the
- 19 steering wheel one way or the other, a couple inches one way or
- 20 the other, but the steering is minimal. Coupled with the
- 21 problem of accelerating and/or braking.
- 22 Q. If we could go back to Exhibit 119, which is your report,
- 23 at Page 31. Can you enlarge the first bullet point under
- 24 Conclusions.
- 25 You ultimately concluded that the physical actions of Barry

- 1 Jones described by the two Lopez children while he was driving
- 2 the Ford van were extremely improbable from a functional
- 3 anatomy biomechanics perspective. Is that correct?
- 4 A. Yes. And I should elaborate on that just a little bit.
- 5 There were so many statements from both defense and
- 6 prosecution interviews, there were also statements during
- 7 court, so you'd have to pick each one apart there was so much
- 8 inconsistency. You know, that figures into some degree as
- 9 well.
- But, clearly, there are so many reasons, aside from the
- 11 inconsistent testimony, that make this two- to three-and-a-half
- 12 second observation extremely questionable. Even in adults, let
- 13 alone eight year-old children.
- 14 Q. Dr. Hannon, you also took a look at some of the injuries
- 15 Rachel suffered, is that correct?
- 16 A. Yes, ma'am.
- 17 O. The first question: Did you see any injuries on Rachel
- 18 that were consistent with the actions that the Lopez children
- 19 described in terms of the elbow and fist strike?
- 20 A. No. There were some small bruises on the face, there were
- 21 more significant bruising on the right side of Rachel's face.
- 22 But, clearly, an elbow or a backhand fist to the nasal bones,
- 23 which are bifurcated, in adults those fail at about 75 pounds.
- 24 We don't have data on four-year-old children, but you can darn
- 25 well bet it's much, much less. So a good strong tap will

- 1 fracture those bifurcated nasal bones.
- 2 Likewise, the zygoma, which is the upper cheek right here,
- 3 and it blends in with part of the temporal bone to form the
- 4 zygomatic arch, those bones are very fragile as well. It's not
- 5 like the frontal bone. The frontal bone is pretty darn tough,
- 6 but the zygoma and the zygomatic arch are considered fragile
- 7 bones. In adults, they can fracture at approximately 200
- 8 pounds. That's based on cadaver work. We don't have those
- 9 data, of course, on children.
- 10 Q. Did you also evaluate whether any of Rachel's injuries were
- 11 consistent with being caused by a pry bar that was in evidence?
- 12 A. I did.
- 13 Q. Did you actually go and look at that pry bar?
- 14 A. I did. And that was also on, I believe, October 5th of
- 15 this year.
- 16 Q. And you weighed that pry bar?
- 17 A. I did.
- 18 Q. I believe our office also provided an exemplar pry bar to
- 19 you?
- 20 A. Yes, an exemplar pry bar was actually provided to me back
- 21 in 2010, I believe. And so I had that pry bar for some time.
- 22 The actual pry bar was provided to me on October 5th. We took
- 23 photographs, and likewise we took the weight, and the weight
- 24 was 660 grams.
- 25 Q. Did you conclude that the pry bar in evidence and the

- 1 exemplar pry bar that you had previously had were substantially
- 2 the same in terms of your analysis?
- 3 A. Substantially the same. I should mention in my report I
- 4 mentioned that I had weighed the pry bar, and I'm not sure what
- 5 happened, but I had weighed it at 660 grams.
- 6 To back up a little bit. It turns out that the actual pry
- 7 bar was approximately 651 to 652 grams, and so my initial
- 8 impression when I weighed the actual pry bar was that it was
- 9 about 10 grams heavier, which is inconsequential. But then I
- 10 found some new measurements that were taken in 2017 of the
- 11 prior, the exemplar pry bar, and it turns out that the exemplar
- 12 pry bar that I had had for about five, six years weighed 610
- 13 grams. The actual pry bar was a little bit longer, just a
- 14 little bit under 15 inches, and likewise weighed 652. So we're
- 15 looking at about a 41 to 42 gram difference, which is a little
- 16 bit over an ounce difference. It's a difference that doesn't
- 17 make a difference.
- 18 Q. I believe in your report you concluded that Rachel's
- 19 abdomen injury was not caused by the pry bar, is that correct?
- 20 A. That is correct.
- 21 Q. Can you explain to us the basis for that opinion?
- 22 A. Well, the basis is, is that although the pattern has some
- 23 characteristics of possibly one end of the pry bar, the biggest
- 24 problem -- which is why no expert has opined that this pry bar
- 25 did produce that abdominal injury, no expert on either side has

- 1 opined that. And the reason is, is that the actual pry bar is
- 2 about three-sixteenths of an inch wide, it comes to a sharp end
- 3 where it curves down on the end, and if Rachel Gray were hit
- 4 with that pry bar with enough force to actually in a sense move
- 5 into the transverse colon through the abdominal musculature --
- 6 rectus abdominis, transverse abdominis, and the obliques in the
- 7 fatty tissue, through a number of different organs -- you would
- 8 see a very deep laceration.
- 9 At the very least, you would see a laceration through, in
- 10 fact, all of the abdominal musculature, most probably a
- 11 laceration in the transverse colon, and likewise deep injury to
- 12 the pancreas, perhaps the gallbladder, which sits right next to
- 13 the duodenum, in addition to rupturing the duodenum. So it's
- 14 completely inconsistent with any kind of a blow that would
- 15 produce, if you will, a deep injury.
- 16 This is probably a blow to the tummy, and it could have
- 17 produced certainly a bruising that was perhaps a quarter of an
- 18 inch thick. I see that referenced -- I see the reference to
- 19 the bruising in the autopsy report. I have not seen any photos
- 20 where that bruise was cut into, exposed, that would
- 21 definitively tell me that this was a deep bruise of at least a
- 22 quarter of an inch. But most assuredly, it's not a blow that
- 23 could have possibly produced this rupture to the third portion
- 24 of the duodenum.
- 25 Q. Let me just make sure I am understanding what you're

- 1 saying. So if the pry bar had been used to cause the rupture
- 2 to the duodenum, it would have to have struck Rachel in a way
- 3 where it was a focal point injury that would cause a laceration
- 4 from the outside of her body. Is that what you're saying?
- 5 A. Yes, it would have to go through superficial tissues first
- 6 and would have to produce a significant injury in superficial
- 7 tissues and moreover would also produce kind of sharp impact
- 8 injuries to internal organs. And we don't see any of that.
- 9 But there's another reason that it seems very improbable
- 10 that this pry bar was used even to produce a superficial
- 11 injury. And that is when the pry bar is swung, as it's swung
- 12 with a backhand or a forehand, most likely what would happen
- is, is that the tip of the pry bar would come in contact first
- 14 with the tummy -- let's just call it "the tummy" -- on Rachel's
- 15 right side; and if that happened it would dig in. That end of
- 16 that bruise would be deeper than the rest of the bruise. And
- 17 the bruise, at least from the photographs that I viewed at
- 18 autopsy, are fairly consistent in that approximately something
- 19 hit her fairly flat, if you will, across her tummy.
- 20 Q. Do you have an opinion about or some knowledge of what
- 21 might be a more probable mechanism for Rachel's abdominal
- 22 injury?
- 23 A. Well, there's that bruise. There are also two bruises
- 24 below it that are very faint. But they're all approximately
- 25 parallel. Now that doesn't mean that something was swung one

- 1 time, but it might point to some sort of a stick or a rod that
- 2 was swung at some point and produced some bruising along with
- 3 some scraping. In other words, if a rod hits and then abrades
- 4 as well, you'll get that little tail-off bruise.
- 5 Q. Just to confirm, you're talking about the external injuries
- 6 that we observed on Rachel, not the duodenal laceration.
- 7 A. That is correct. Again, the duodenum was not lacerated.
- 8 It was simply, if you will, ruptured, pulled away from that
- 9 lumbar spine. So what we're talking about, those parallel
- 10 lines on the right side of her abdomen. And I do understand
- 11 there was an incident that occurred one or two days before
- 12 involving a young child, but a fairly large child, who was --
- 13 who is walking. In other words, this person, this child, was
- 14 ambulatory. And that's a possibility. I can't say that's a
- 15 probability, not enough information.
- 16 Q. Fair enough.
- 17 Did you also consider whether the pry bar might have caused
- 18 the injury to Rachel's scalp that was observed?
- 19 A. Yes.
- 20 Q. Did you have an opinion about that?
- 21 A. I think it's not a match. And there's one primary reason
- 22 for that. And I should candidly admit the scalp wound was
- 23 fairly linear. It did go through all the layers of the scalp.
- 24 And that includes the galea aponeurosa. And when you split
- 25 that helmet, it's called a helmet, the galea aponeurosa,

- 1 there's a lot of tension there and it opens up. Okay? So it
- 2 was linear in fashion.
- 3 That's the evidence for the pry bar. The problem is, is
- 4 that if that pry bar had been swung with any kind of
- 5 substantial force -- and I'm not talking about an all-out
- 6 swing, but if it had been swung by an adult or by anybody over
- 7 age 13, okay, like that, with that kind of
- 8 force...(demonstrating), what's most probable, highly probable,
- 9 is in a four-year-old skull, the calvarium, the top, you would
- 10 produce a depressed skull fracture. And I'm really talking
- 11 about the edge, the thickness of that pry bar. The actual pry
- 12 bar was three-sixteenths of an inch, if you will, thick.
- So you take something like that, that weighs, you know,
- 14 two-thirds of a kilogram, okay, and you swing that and you hit
- someone on the head, a child on the head, like
- 16 that...(demonstrating), you're likely to produce, extremely
- 17 likely to produce, a depressed skull fracture. And that's
- 18 where that top layer of bone, okay, breaks into the cancellous
- or spongy bone down below. And that would show up on an x-ray
- 20 right away.
- 21 Q. And we didn't see that here?
- 22 A. No, there is no fracture of the skull. There are no
- 23 fractures of the face, period. There are no fractures of any
- 24 bones.
- 25 Q. Do you have an opinion about whether that scalp wound could

- 1 have been caused by an arm or an elbow or a fist?
- 2 A. I do. And the reason being -- no, that's my opinion. The
- 3 basis for that opinion is that a backhand fist or an elbow has
- 4 the potential, if swung hard enough, to produce a full
- 5 thickness scalp wound. But under that circumstance you would
- 6 likely see more of a stellar or a star-like pattern, and this
- 7 had a fairly linear pattern as opposed to a stellar pattern.
- 8 Now, again, I should mention that in a van, swinging with a
- 9 fist or an elbow, it's hard to generate as much force because
- 10 one is not able to bring into play as much momentum. But I
- 11 wouldn't say that it's impossible that a wound like this
- 12 couldn't be produced. The main problem is it's not a stellar
- 13 pattern.
- 14 MS. SMITH: Thank you, very much, Dr. Hannon. I don't
- 15 have any other questions right now.
- 16 THE WITNESS: Thank you.
- 17 THE COURT: Thank you. Cross-examination?
- 18 CROSS-EXAMINATION
- 19 BY MR. BRACCIO:
- 20 Q. Good morning, Dr. Hannon.
- 21 A. Good morning.
- 22 Q. It's nice to see you again.
- 23 A. Good to see you, too.
- 24 Q. It is your understanding that, back in 2009, Paul Gruen
- 25 recommended you to the Federal Public Defender's office,

- 1 correct?
- 2 A. Mr. Braccio, that is my understanding.
- 3 Q. In conducting your investigation, you accepted Paul Gruen's
- 4 speed estimates for the van, correct?
- 5 A. Yes, I did.
- 6 Q. And that was 15 to 20 miles per hour?
- 7 A. Yes, sir.
- 8 Q. And you believed that that was consistent with the Lopez
- 9 children's description, correct?
- 10 A. I am not sure that the Lopez -- I don't recall if the Lopez
- 11 children described a speed in terms of miles per hour. If they
- 12 did, then I am in error.
- 13 Q. Sure. Let me pull up your report, it's Exhibit 119.
- 14 A. Sure.
- 15 Q. Bates 3988.
- 16 If you see, on the page you indicated in your report, this
- 17 velocity estimate is consistent with the descriptions of the
- 18 two Lopez children. Does that refresh your recollection that
- 19 you believed that speed estimate was consistent with their
- 20 description?
- 21 A. Yes, sir, it does.
- 22 Q. You also accepted Mr. Gruen's opinion of the approximate
- 23 position of the Lopez children and the path of the van,
- 24 correct?
- 25 A. Yes.

- 1 Q. And the speed of the van and the approximate position of
- 2 the Lopez children are little more than just what you term
- 3 "reasonable possibilities," correct?
- 4 A. I think that's true, because in terms of precisely where
- 5 they are, one would have to say it's undetermined.
- 6 Q. Correct.
- 7 You recall in your interview you told us those were just
- 8 reasonable possibilities?
- 9 A. Yes.
- 10 Q. You also took the photographs in this case in October of
- 11 2009 at a different time of day than the Lopez children claimed
- 12 to have seen the van, correct?
- 13 A. Yes.
- 14 Q. You were paid a little more than \$20,000 for your 2010
- 15 report, correct?
- 16 A. Yes. Inspection report, but, yes, a little over \$20,000,
- 17 yes, sir.
- 18 Q. Do you know how much you've billed so far in this case?
- 19 A. I don't, but I believe it's -- I believe it to be under
- 20 \$5,000 at this point.
- 21 Q. In addition to the \$20,000?
- 22 A. Yes.
- 23 Q. So we're talking just around \$25,000?
- 24 A. Yes. And it could be a little bit more, but not much more.
- 25 Q. Okay. You are not a medical doctor, correct?

- 1 A. I am not.
- 2 Q. You do not know where the Lopez children were when they saw
- 3 the van, correct?
- 4 A. No. Except that obviously I think they were between, where
- 5 they were standing, fairly close to each other, between the van
- 6 and Choice Market. But precisely where they were, I don't
- 7 know.
- 8 Q. In your report, you guessed at the environmental factors
- 9 such as the glare off the windshield that might have affected
- 10 the Lopez children's vision, correct?
- 11 A. I am bothered by that term "quess."
- 12 Q. Let's pull up your interview. Again, this is Exhibit 208.
- 13 I am showing you a transcript of our August 10th, 2017
- 14 interview, at Page 16.
- 15 You indicated at Lines 6 through 9 there: Some of these
- 16 environmental factors probably would be -- well, I could opine
- 17 on them but also Paul Gruen can opine -- glare off the
- 18 windshield and so on. Correct?
- 19 A. Yes, that is correct.
- 20 Q. In taking your photos in October of 2009 at the impound
- 21 lot, you made no attempt to correlate the conditions of the day
- 22 and time with the conditions of May 1st, 1994, correct?
- 23 A. That is correct.
- 24 Q. In fact, a lot of these photos show the van with a flat
- 25 tire, correct?

- 1 A. Yes. No question about it. All four tires were flat.
- 2 Q. Your only basis for knowing the location of Jones and
- 3 Rachel inside the van is dependent upon the Lopez children's
- 4 statements, correct?
- 5 A. That's probably true, yeah. And that's the basis for
- 6 the -- the displacement, the closest displacement of
- 7 approximately, I believe, 26 feet as the van passed by.
- 8 Q. You agree that Rachel's head would be visible above the
- 9 passenger windowsill by about six inches, correct?
- 10 A. Yes, depending upon perspective error. But the point being
- is that Rachel's head, given her seated height of approximately
- 12 21 inches, sitting on a seat pan that's 15 inches below the
- 13 windowsill, it's simply a matter of taking 15 from 21, which
- 14 gives me six, which would -- if she's sitting upright would
- 15 give me that measurement.
- 16 Q. Certainly. Again, that's presuming she's sitting down in
- 17 that chair, her head is six inches above the passenger
- 18 windowsill.
- 19 A. Yes, on the passenger side.
- 20 Q. And you agree that the front window, the front windshield,
- 21 is actually an inch to an inch and a half lower than the
- 22 passenger window, correct?
- 23 A. I would agree, but we talked about that during my
- 24 interview, and noted that the -- between the cowl and likewise
- 25 the dash, as it sticks up a little bit higher than the

- 1 windshield, so if there's a difference there is not much
- 2 difference.
- 3 Q. You have no doubt that the Lopez children could have seen
- 4 Rachel's head looking at that van, correct?
- 5 A. I think they had the opportunity to see Rachel's head when
- 6 she was closer again. I question at 70 or 80 feet back,
- 7 because, again, although her head was above the windowsill, it
- 8 may have blended in with that seat back and head rest, so at
- 9 that point was illumination sufficient for them to
- 10 differentiate between the upper part of the seat back and the
- 11 head rest, I would question that at that point.
- Now, a little later on when they were closer, okay,
- depending upon lighting conditions, depending upon glare,
- 14 depending upon perspective error, I think it's a possibility
- 15 that they could have seen her head. I think it's depending
- 16 upon where she was sitting.
- 17 O. Let me pull up your interview at Page 20, at Line 25.
- Do you recall in our interview with you, Dr. Hannon, that
- 19 you indicated there was no doubt the Lopez children could have
- 20 seen Rachel's head looking at that van?
- 21 A. That was on what page?
- 22 Q. It's Page 20 here in front of you, and the question was
- 23 asked: You have no question, do you, that the Lopez kids could
- 24 have seen Rachel's head looking at that van? And your answer
- 25 was: I don't question that. Is that correct?

- 1 A. And I would agree I did say that.
- 2 Q. And you have no doubt that the Lopez children would have
- 3 had a good view of the upper torso and head of Jones through
- 4 that windshield, correct?
- 5 A. Yes, I would agree.
- 6 Q. You have no doubt that the Lopez children had the ability
- 7 to see Jones and Rachel in the van on May 1st, 1994, at least
- 8 for a short period of time, correct?
- 9 A. That's a question that's broad. I answered it on Page 36
- 10 through 38 of my interview.
- I'm sorry. I meant to answer yes or no.
- 12 I think they had the ability to see both Barry Jones and
- 13 Rachel Gray in the van at some point along this sequence of
- 14 travel, and so on, but there are many mitigating factors that
- 15 make the observation and details of the observation
- 16 questionable, and I explained that in detail at Pages 36
- 17 through 38 in my interview.
- 18 Q. You were prepared for this question.
- 19 But in any event --
- THE COURT: That's a comment, and I don't need
- 21 comments. Just pose your next question.
- MR. BRACCIO: I apologize, Your Honor.
- 23 BY MR. BRACCIO:
- 24 Q. Again, let me take you to Page 25 of your interview, at
- 25 Line 22. You were asked: So, sitting here today, you have no

- 1 doubt that the Lopez children had the ability to see Jones and
- 2 Rachel in the van on May 1st, 1994? You indicated: I think
- 3 they had the ability, yes, to see Barry Jones and Rachel in the
- 4 van.
- 5 Did I read that correctly?
- 6 A. That is correct.
- 7 Q. In fact, as the van came closer to the Lopez children, the
- 8 view through the front window would be very similar to the view
- 9 through the passenger window, correct?
- 10 A. I don't know that that necessarily -- I don't know that to
- 11 be true. Because as it comes closer to the Lopez children, I
- 12 don't necessarily -- I don't think we can assume that it was
- 13 coming straight towards them. In other words, it's in fact
- 14 between the Choice Market and where they were standing
- 15 somewhere. So as it became closer, that windshield view tends
- 16 to become less and less relevant. And as it comes closer
- 17 between the market and the children, now the primary view would
- 18 be through the driver's side window.
- 19 Q. I'm not sure that answered my question. Let me see if I
- 20 can ask it again.
- 21 A. Sure.
- 22 Q. As the van came closer to the Lopez children, the view
- 23 through the front window would be very similar to the view
- 24 through the passenger window, correct?
- 25 A. As it becomes -- as it comes closer to the children, how

- 1 close are we talking about? I do want to answer your question,
- 2 sir.
- 3 Q. Sure. Let me pull up your interview at Page 20, Line 18.
- 4 Do you recall that I asked you this question in the
- 5 interview? Excuse me. That Mr. Todd asked you this question
- 6 in the interview?
- 7 A. Let's read that. If we read that excerpt then I can
- 8 comment on it.
- 9 Q. Absolutely. Starting at Line 20 of your interview: And as
- 10 you approach, you know, the view would be very similar --
- 11 MR. SANDMAN: Excuse me. I apologize. Could we see
- 12 the question first in the interview so we know what he's
- 13 answering?
- 14 THE COURT: I think that's reasonable.
- MR. BRACCIO: Certainly.
- 16 THE COURT: Keep scrolling up.
- 17 BY MR. BRACCIO:
- 18 Q. So the question was asked of you: So, through the front
- 19 window her head would be, face would be visible, correct?
- That was the question?
- 21 A. Yes.
- 22 Q. Whether you could see her head through the front window of
- 23 that vehicle?
- 24 A. Was it head or face?
- 25 Q. Her head. Okay.

- 1 THE COURT: Well, hold on a second.
- 2 The question includes both head and face.
- 3 THE WITNESS: Okay.
- 4 THE COURT: The questions reads: Okay. So, through
- 5 the front window her head would be, face would be visible,
- 6 correct?
- 7 That's the question that was put to you.
- 8 THE WITNESS: Okay.
- 9 BY MR. BRACCIO:
- 10 Q. And you indicated: Yes, from a distance.
- 11 A. Yes, from a distance.
- However, again, if we're looking at 70 or 80 feet away,
- 13 then I think acuity could be a problem. And likewise I just --
- 14 although I didn't mention this during the interview, I think
- 15 the problem of blending in with the seat back and head rest
- 16 could be a problem. But certainly her head would be in view,
- 17 if I can clarify that. Her head would be in view looking at
- 18 the windshield from 40, 50, or 60 feet back.
- 19 THE COURT: The problem here, Counsel, is -- and I
- don't know, sir, if you've had a chance to read the answer you
- 21 gave to the question that you're trying to cross him on now.
- 22 He covers a bunch of other issues that could have impact on the
- 23 view of the Lopez twins.
- Anyway, well, there will be a chance for redirect.
- 25 MR. BRACCIO: Sure. I'm happy to move on.

- 1 THE COURT: That's fine.
- 2 BY MR. BRACCIO:
- 3 Q. And it's mere speculation whether Rachel was sitting or
- 4 kneeling on that passenger seat, correct?
- 5 A. It is, it is speculation. She could be kneeling, she could
- 6 be, if you will, sitting. And, again, I talked in my interview
- 7 about why most likely she would not be standing. Her stability
- 8 would not be good standing.
- 9 Q. You have discovered nothing in your investigation that
- 10 would indicate that the Lopez children were not able to see
- 11 Jones hit Rachel in the van, correct?
- 12 A. Could you read that question one more time.
- 13 Q. Absolutely. You have discovered nothing in your
- 14 investigation that would indicate that the Lopez children were
- 15 not able to see Jones hit Rachel in the van, correct?
- 16 A. Well, I pointed out a number of factors which make it very
- 17 questionable, including where there were reports by Laura Lopez
- 18 that Rachel was on the other side by the passenger side window.
- 19 If she's by the passenger side window, we've got a problem.
- 20 Q. I understand your opinion, sir. If you could just listen
- 21 to my question. My question is you have discovered nothing in
- 22 your investigation that would indicate that the Lopez children
- 23 were not able to see Jones hit Rachel in the van, correct?
- 24 A. I haven't seen any definitive evidence that it was an
- 25 absolute impossibility that the Lopez children could not have

- 1 seen Barry Jones strike Lopez. I see a number of factors that
- 2 make that observation very questionable.
- 3 O. I understand --
- 4 A. That's the most honest way I can answer that.
- 5 Q. You were asked to look at the abdominal blow that produced
- 6 a tear in the duodenum and damage to the transverse portion of
- 7 the colon, correct?
- 8 A. Yes.
- 9 Q. And for children, the tolerance limits have not been
- 10 established for this biomechanical insult to the abdomen,
- 11 correct?
- 12 A. That is correct.
- 13 Q. Nevertheless, in your report you guessed that Rachel Gray's
- 14 body would offer nearly as much resistance to a blow as an
- 15 older child, but at the interview you agreed that her body
- 16 would offer less resistance, correct?
- 17 A. No.
- 18 Q. Okay.
- 19 A. Do you want to pull up my report?
- 20 Q. I'll pull up your interview, at Page 22, Line 5. Why don't
- 21 we even back it up to Page 21 so we can have the full context
- 22 of this question.
- 23 You were asked in your interview: Is it still true that --
- 24 as it was in 2010, that the tolerance limits have not been
- 25 established for --

- 1 A. Where is this? I am trying to find it on my report.
- 2 Q. I understand.
- 3 A. Go ahead.
- 4 THE COURT: Sir, if you're going to impeach him, you
- 5 can just make sure counsel knows what you're referring to, and
- 6 you can impeach him with what you think is an impeaching -- a
- 7 statement that you think is appropriate to impeach him with.
- 8 MR. BRACCIO: Sure.
- 9 THE COURT: Go ahead.
- MR. BRACCIO: Can you scroll down?
- 11 BY MR. BRACCIO:
- 12 Q. I asked you in the interview here -- I'm sorry. Mr. Todd
- 13 asked you in the interview: Nevertheless, you guessed that
- 14 Rachel's body would offer nearly as much resistance to a blow
- 15 as an older child or adult, correct?
- 16 A. Yes, and that was a misrepresentation of my report. That
- 17 was not from my report, but that was a misrepresentation by
- 18 Mr. Todd. If you'll look closely at my report.
- 19 Q. Okay. I understand.
- 20 After your investigation, you concluded that accidental
- 21 abdominal trauma was improbable, correct?
- 22 A. Yes.
- 23 Q. Your opinion is that the injury to Rachel's duodenum was
- 24 the result of child abuse, someone administering a very hard
- 25 blow when Rachel was in a position that did not permit her body

- 1 to move, such as on the ground, correct?
- 2 A. That is correct.
- 3 Q. And you indicated that probably no one younger than 13
- 4 years old could produce such a blow, correct?
- 5 A. Yes. And I threw that age out as a ballpark estimate.
- 6 Someone fairly big, this would not be produced by another six-
- 7 or seven-year-old child, but typically someone in the early
- 8 teens on up, of course, a significant blow.
- 9 Q. And you believed that Rachel's duodenum tear could have
- 10 resulted from a fist punch, correct?
- 11 A. Yes. But, again, and I talked about this in my interview,
- 12 and also my report, when you look at the epidemiology
- 13 literature, in terms of this injury in child abuse,
- 14 non-accidental injury, it's typical when the child is laying on
- 15 a hard surface, if you will.
- 16 And so it's either a foot stomp, could be a hard punch,
- 17 absolutely. The literature indicates that it's primarily
- 18 children between age one and up to about age five. A hard
- 19 stomp, it compresses through the abdominal musculature, through
- 20 the small gut, the large gut, back to the duodenum and jejunum
- 21 as well, and produces this characteristic tear, particularly at
- 22 the retroperitoneal portion of the duodenum.
- 23 So that takes a considerable amount of force. It's easier
- 24 if you have a lateral clamp. And what I mean by that,
- 25 Mr. Braccio, is the fact that if a child is laying on the

- 1 ground and a downward blow is administered, the child will not
- 2 move. They can't move, they're clamped between the ground
- 3 surface and the foot or the fist punch. That produces the
- 4 lateral clamp, that produces the deep compression, that's what
- 5 produces this injury typically in children under five.
- 6 Q. You believed that the scalp injury could have been produced
- 7 by a strike against a surface, but not necessarily the ground,
- 8 correct?
- 9 A. Yes, that's one option. That's one possibility. So it
- 10 could have been a wall, the edge of a wall. I think that's a
- 11 possibility, too.
- 12 Q. For that linear scalp wound to be caused by a fall to the
- 13 ground, however, the impact would have to be on a focal point,
- 14 such as a curb or rock, correct?
- 15 A. That is most likely, yes, because of the linear nature of
- 16 that wound, in my opinion.
- 17 O. An elbow has a little more focal point than a hand, but it
- 18 would be unusual for an elbow strike to cause a laceration
- 19 through all five layers of the scalp, correct?
- 20 A. No. An elbow certainly is -- I would term that a focal
- 21 point impact. And I think an elbow, a hard elbow, with
- 22 considerable momentum, could produce a full five-layer scalp
- 23 opening. However, the pattern would be more of a stellar
- 24 pattern.
- 25 Q. Your expertise in biomechanics does not provide an answer

- 1 to how Rachel would have reacted after being struck, correct?
- 2 A. No, I don't see that as a biomechanics question. I think
- 3 that's a question for the trier of fact.
- 4 Q. We previously saw some of the photos that you took in this
- 5 case, correct?
- 6 A. Yes, sir.
- 7 Q. The photos that you took of that van to demonstrate the
- 8 difficulty Jones would have had in striking Rachel, but because
- 9 of a bad hip some of your movement was restricted, correct?
- 10 A. I'm sorry. Could you repeat that question?
- 11 Q. Absolutely. The photos showing you in the van striking the
- 12 passenger seat, correct?
- 13 A. Yes. Go ahead.
- 14 Q. Now, you had a bad hip, which limited some of your movement
- 15 to take those pictures, correct?
- 16 A. Mr. Braccio, no. And I apologize for -- that was an error
- 17 by the court reporter. And at that time, in 2010, I had a good
- 18 shoulder. Why she put down "hip," I don't know. But at the
- 19 time, in 2010, I was able to abduct my shoulder.
- Now this is as far as I can go. (Demonstrating) I've had
- 21 surgery on my shoulder. And so, in 2010, I was able to fully
- 22 abduct, take my arm up to the side, my shoulder was okay.
- 23 Subsequently, in 2014, I had shoulder surgery, and during the
- 24 interview I wasn't able to go ahead and lift that shoulder very
- 25 high, so I demonstrated with my left arm. And I think the

- 1 court reporter got confused between "shoulder" versus "hip."
- 2 Q. Thank you.
- 3 A. You bet.
- 4 Q. Even so, you were able to hold onto the steering wheel with
- 5 one hand and hit the passenger seat with your elbow, correct?
- 6 A. That is correct.
- 7 And now we should clarify that. Where I was able to strike
- 8 on the passenger seat was approximately at that 17-inch mark
- 9 and at the higher 21-inch mark on the one wing, the middle
- 10 wing, or towards the center of the van. I was able to go ahead
- and reach that point with my elbow, yes, sir.
- 12 Q. Dr. Hannon, let me show you Exhibit 119, Bates Number 3996.
- 13 The top photo here depicts you striking the passenger seat of
- 14 that van?
- 15 A. Yes, sir.
- 16 Q. Pull up Bates 4025. That bottom picture that we reviewed
- 17 earlier, again, shows you holding onto the steering wheel
- 18 striking the passenger seat, correct?
- 19 A. Yes, sir.
- 20 O. 4026. Same scenario?
- 21 A. Yes, sir. Obviously my head is in a little different
- 22 position, different photos, but same scenario, yes, sir.
- 23 O. And 4027. Same scenario here?
- 24 A. Yes, sir.
- 25 Q. It's your opinion that the position with your foot on the

- 1 accelerator, you would not have had good control over the van,
- 2 correct?
- 3 A. That is my opinion, yes. That the right foot probably
- 4 could reach the accelerator, no problem there, but having good
- 5 control would have been difficult.
- 6 Q. Depending on what was happening with your body in that
- 7 position, holding onto the steering wheel and striking, the van
- 8 could swerve, correct?
- 9 A. Yes, if striking occurred, then certainly the steering
- 10 wheel could move in that position up or down a little bit and
- 11 that would produce a change in direction, which you've just
- 12 termed as a "swerve."
- 13 Q. Thank you.
- 14 You were also asked to examine a pry bar to determine if it
- 15 had been used to produce the blow to the abdominal region,
- 16 correct?
- 17 A. Yes.
- 18 Q. At the time you wrote your report, you were not aware that
- 19 Rachel told her mother that Jones had hit her with a metal shoe
- 20 bar, correct?
- 21 A. That is correct, that was brought up during my interview.
- 22 Q. You looked at the scalp injury to opine on what instrument
- 23 could have caused the injury versus a fall to the ground,
- 24 correct?
- 25 A. Yes.

- 1 O. And you indicated that a pry bar that you examined would
- 2 have likely produced a depressed skull fracture of the
- 3 calvarium, c-a-1-v-a-r-i-u-m, even if swung by a teenager?
- 4 A. Yes.
- 5 Q. However, you are not saying that a pry bar absolutely could
- 6 not have caused the laceration to the head, just that it was
- 7 swung with any kind of rapid motion, it would produce that
- 8 skull depression. Correct?
- 9 A. That is correct. I think it was questioned in terms of
- 10 does it depend upon the force, and the answer to that question
- 11 is yes. Obviously if it's swung with just the right amount of
- 12 force to produce a full scalp wound and not produce a depressed
- 13 fracture, then it's possible. It's improbable. More probable
- 14 that it would also produce, in addition to the scalp linear
- 15 wound, it would also produce a depressed skull fracture through
- 16 at least one of those layers, those two layers, diploë layers
- 17 of the skull.
- 18 Q. My final question: The damage to the head would depend on
- 19 the amount of force with which the instrument was swung,
- 20 correct?
- 21 A. Yes, sir, that is correct.
- MR. BRACCIO: Thank you, Dr. Hannon. No further
- 23 questions.
- THE WITNESS: Thank you.
- THE COURT: Thank you. Redirect?

REDIRECT EXAMINATION

2 BY MS. SMITH:

1

- 3 Q. Dr. Hannon, Mr. Braccio asked you about the answer you gave
- 4 during your interview to the question of whether Rachel's head
- 5 or face would be visible through the front window, correct?
- 6 A. Yes.
- 7 Q. And do you recall what your complete answer to that
- 8 question was?
- 9 A. I don't recall verbatim, but --
- 10 Q. Could we take a look at your complete answer just to
- 11 complete the record here?
- 12 A. Sure.
- 13 Q. It's Exhibit 208 at Page 20.
- 14 THE COURT: Is this a marked and admitted exhibit?
- MS. SMITH: This is not a marked exhibit, Mr. Braccio
- 16 just used it for impeachment, and I just wanted to give
- 17 Mr. Hannon an opportunity to put his whole answer in the
- 18 record. 208 is a marked exhibit, it has not been admitted in
- 19 evidence.
- 20 THE COURT: Okay. I am going to have the portion that
- 21 both of you have been referring to, I'd like that marked and
- 22 admitted as an exhibit. Since you all have been referring him
- 23 to this, it's been shown to me and to the witness, at this
- 24 point I think it should be marked and admitted.
- 25 MS. SMITH: Okay. So it's already been marked, and I

- 1 guess now at this point it will be admitted.
- 2 THE COURT: Well, are you all -- I think what's
- 3 relevant is the portion that you all have been referring this
- 4 witness to, not necessarily --
- 5 MS. SMITH: Sure.
- 6 THE COURT: -- The whole thing.
- 7 MS. SMITH: We can identify those portions for you.
- 8 THE COURT: Go ahead.
- 9 BY MS. SMITH:
- 10 Q. Dr. Hannon, can you read your answer at Lines 9 through 24.
- 11 A. Yes.
- 12 Q. We'll make it a little bigger for you.
- 13 A. Yes, from a distance it depends on the perspective. By the
- 14 way, keep in mind that although the windshield goes down a
- 15 little further than the side window, it's a difference that
- 16 doesn't make a difference.
- And number two, you also have to look at that dash
- 18 carefully of that Ford van, 1972 van. It comes up, you know, a
- 19 little bit higher. In other words, it raises up a little bit
- 20 past the cowl of the windshield, so at about the level of, if
- 21 you will, the side window.
- So, depending on their perspective, referring to the
- 23 children, when they're a greater distance away, when you're a
- 24 greater distance away, you have a little bit better view. And
- 25 as you approach, you know, the view would be very similar, as

- 1 you get closer, the view would be similar through the
- 2 windshield and likewise through the side window. It's just
- 3 that Rachel, because she's further back --
- 4 Q. Then it looks like you got cut off there. Thank you.
- 5 Dr. Hannon, you were asked about whether you had replicated
- 6 the lighting conditions as they were on the afternoon that the
- 7 Lopez children allegedly observed the van, is that correct?
- 8 A. That is correct.
- 9 Q. Do you think that correlating exactly the lighting
- 10 condition is important to your ultimate opinion?
- 11 A. No, it's not. And it would be very difficult to do.
- On that day of October 27th, 2009, it was sunny, but there
- 13 were some clouds as well, and it wasn't the same time of the
- 14 day. So all of those factors have an effect. But clearly from
- 15 70 -- 60, 70, or 80 feet back, outlines, because of the
- 16 illumination coming into the van, coupled with glare -- and
- 17 admittedly I don't know how much glare played a part, but to
- 18 try and replicate all of those different factors I think would
- 19 be, again, a disservice to the trier of fact, because unless
- 20 you can really replicate those factors, I think it can be
- 21 misleading.
- 22 So the point being is my photographs of the van at impound
- 23 clearly have their limitations. The view from 60 or 70 feet
- 24 back is not identical. Could have been better, a little bit
- 25 better. Could have been actually much worse. And no one will

- 1 be able to really recreate that, and especially because the van
- 2 was in impound both for Mr. Gruen, and me at a later date, we
- 3 had to go ahead and use the physical evidence as we found it.
- 4 Q. Sure. And that included, as Mr. Braccio referenced, the
- 5 deflated tires?
- 6 A. That is correct, which would --
- 7 Q. If the tires had been inflated, how would that have
- 8 affected the Lopez children's view?
- 9 A. Well, there is one measurement that shows the tire
- 10 inflation would be between six and seven inches. So that would
- 11 raise the windowsill approximately six to seven inches. Of
- 12 course, this is not a static situation, you've got a van that's
- 13 moving at 15 to 20 miles per hour, so all of those things come
- in to play and present unknowns.
- 15 Q. Sure. If the van were higher up, in general, would that
- 16 make it easier or more difficult for the Lopez children to see
- 17 into the van?
- 18 A. It would be more difficult, because that increases the
- 19 perspective error with the windshield higher and would make it
- 20 more difficult. Especially not so much in terms of seeing
- 21 Barry Jones, because he's next to the driver's side window.
- 22 But difficult, more difficult, in terms of being able to
- 23 observe even the head of Rachel Gray.
- 24 Q. Thank you.
- 25 You were asked some questions about whether you thought it

- 1 was possible for the kids to see Barry Jones strike Rachel. Do
- 2 you think it would have been possible for the Lopez kids to see
- 3 the strikes that they described that Barry Jones inflicted upon
- 4 Rachel?
- 5 A. No. And I'm glad you made that differentiation. Because
- 6 would it have been possible at some points to see Rachel and
- 7 Barry Jones? I think it's absolutely a possibility.
- 8 In terms of the strikes, for the reasons that we've
- 9 discussed already, especially in view of elbow strikes to the
- 10 face, no significant bone damage to the face. Likewise,
- 11 strikes that were stated or indicated by the Lopez children to
- 12 the chest, to the tummy, especially the tummy, absolutely would
- 13 not have been visible.
- 14 So all of those inconsistencies lead me to believe that
- 15 their observations, from a biomechanics point of view, and a
- 16 line of sight or neurosciences point of view, are extremely
- 17 questionable.
- 18 Q. Do you recall in your review of the testimony that during
- 19 the trial Ray Lopez was actually asked to reenact some of these
- 20 actions that he described?
- 21 A. I believe so. It's been a while since I've read that trial
- 22 transcript.
- 23 Q. And when Ray was describing or acting out these motions, do
- 24 you recall at all anyone performing an extreme lean to the
- 25 right like you were doing in these photos?

- 1 A. No.
- MS. SMITH: I don't have any other questions.
- 3 THE COURT: All right. Thank you.
- 4 Thank you, sir. You may step down.
- 5 How are we doing on witnesses for the day? Where are we?
- 6 MS. SMITH: We have one more witness today,
- 7 Dr. Esplin. If we could do him after lunch, that would be
- 8 great.
- 9 THE COURT: Okay. Do you both anticipate the bulk of
- 10 the afternoon with that witness?
- MR. BRACCIO: I doubt I am going to have more than 45
- 12 minutes with him, if that.
- 13 THE COURT: Is he your --
- 14 MS. SMITH: He is my witness. It will probably just
- 15 be two, two and a half hours maybe, max.
- 16 THE COURT: Okay. So why don't we -- go ahead.
- MR. BRACCIO: Your Honor, just for Your Honor, I spoke
- 18 with Sonia Pesqueira last night, and she was actually willing
- 19 and able to cancel her appointment on Monday, so she is
- 20 planning to be here. We can start her first thing Monday
- 21 morning, we can take her Monday afternoon. I anticipate we'll
- 22 be a little bit of time with her, so I think it's better to
- 23 probably start her Monday and then have her continue into
- 24 Tuesday.
- THE COURT: Because we have to take somebody out of

- 1 order then on Monday, right?
- 2 MR. BRACCIO: Nope.
- MS. SMITH: We're going to be done with our witnesses
- 4 on Friday, so then we can start with Pesquiera Monday morning.
- 5 THE COURT: But we're still on track then to finish by
- 6 the end of Tuesday?
- 7 MS. SMITH: Yes, Your Honor.
- 8 MR. BRACCIO: That's correct.
- 9 THE COURT: What we'll do then is we'll break now
- 10 until 1:00. If we start at 1:00, will that give both of you
- 11 sufficient time with this next witness?
- MS. SMITH: Definitely, and I think we'll still end a
- 13 little early.
- MR. BRACCIO: Absolutely.
- 15 THE COURT: And then tomorrow?
- MS. SMITH: Tomorrow we'll start with Stuart James,
- 17 who is our bloodstain expert. And then Judge Hazel is coming
- 18 tomorrow as well, and Mr. Cooper.
- 19 THE COURT: Is that enough time?
- MS. SMITH: Yes.
- THE COURT: For all three of those?
- MS. SMITH: Yes.
- THE COURT: All right. So we'll recess now and resume
- 24 at 1:00 p.m.
- 25 (Off the record at 11:24 a.m.)

Τ	<u>CERTIFICATE</u>
2	
3	I, A. TRACY JAMIESON, do hereby certify that I am
4	duly appointed and qualified to act as an Official Court
5	Reporter for the United States District Court for the District
6	of Arizona.
7	I FURTHER CERTIFY that the foregoing pages constitute
8	a full, true and accurate transcript of the proceedings
9	contained herein, held in the above-entitled cause on the date
10	specified therein, and that said transcript was prepared by me
11	Signed in Tucson, Arizona, on the 27th day of
12	November, 2017.
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15	<u>s/A. Tracy Jamieson</u>
16	A. Tracy Jamieson, RDR, CRR
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